IN THE CLAIMS

Please amend the claims as indicated.

1. (ORIGINAL) An apparatus comprising:

a hybrid network having a hybrid input, a receive input, and a hybrid output, wherein the receive input is capacitively coupled to a subscriber line carrying an upstream data signal and a downstream data signal;

a driver providing the upstream data signal to the subscriber line and the hybrid input, wherein the driver is capacitively coupled to the hybrid input, wherein the hybrid output provides the extracted downstream data signal from the subscriber line.

2. (ORIGINAL) The apparatus of claim 1 wherein the hybrid network resides on an integrated circuit die.

3. (ORIGINAL) The apparatus of claim 2 wherein the driver resides on the same integrated circuit die.

4. (ORIGINAL) The apparatus of claim 1 wherein the hybrid network is a complementary metal oxide semiconductor integrated circuit.

5. (ORIGINAL) The apparatus of claim 1 wherein the upstream and downstream data signals are multitone modulated data signals.

6. (CURRENTLY AMENDED) An apparatus, comprising:

a hybrid network <u>having a receive port capacitively</u> coupled to receive <u>a composite signal including</u> an upstream data signal and a downstream data signal communicated on a subscriber line, <u>the hybrid network having a hybrid input port capacitively coupled to receive the upstream data signal from a driver,</u>

the hybrid network ~~extracting~~ providing the downstream data signal at an output port, wherein the hybrid network order is less than or equal to 2.

7. (CURRENTLY AMENDED) The apparatus of claim 6 wherein ~~the hybrid network further comprises:~~

~~a receive port coupled to receive a composite signal including the upstream and downstream data signals from the subscriber line and the upstream data signal from a driver, wherein~~ a transfer function from the driver to the receive port is $\frac{Z(s)}{R_D + Z(s)}$, wherein R_D is a driver output impedance

wherein Z(s) is a subscriber line ~~impedance;~~

~~an output port providing the extracted downstream data signal,~~ impedance, wherein a transfer function from the receive port to the output port is $K_{rx} \cdot \frac{s}{s + HYB0}$, wherein HYB0 is programmatically adjustable, wherein K_{rx} is a receive path gain.

8. (CURRENTLY AMENDED) The apparatus of claim 7 ~~wherein the hybrid network further comprises:~~

~~a hybrid input port coupled to receive the upstream data signal from the driver,~~ wherein a transfer function from the hybrid input port to the hybrid output port is $K_{HYB} \cdot \frac{s}{s + HYBP}$, wherein HYBP is programmatically adjustable, wherein K_{HYB} is a hybrid path gain.

9. (CURRENTLY AMENDED) The apparatus of claim 8 wherein the subscriber line impedance is approximated by series coupled resistor R_X and capacitor C_X, wherein the transfer function from the driver to the receive port to the output is $K_{rx} \cdot \frac{1 + sC_xR_x}{1 + sC_x(R_x + 2R_D)} \cdot \frac{s}{s + HYB0}$, wherein HYB0 is adjusted to have a value substantially equivalent to $\frac{1}{R_XC_X}$, wherein ~~wherein~~ HYB0 is adjusted to

substantially match Z(s), wherein HYBP and KHYB are selected such that $K_{HYB} \cdot \frac{s}{s + HYBP}$ is substantially the same as $K_{rx} \cdot \frac{1 + sC_xR_x}{1 + sC_x(R_x + 2R_D)} \cdot \frac{s}{s + HYB0}$.

10. (ORIGINAL) The apparatus of claim 6 wherein the hybrid network is tuned to behave substantially as a first order network.

11. (ORIGINAL) The apparatus of claim 6 wherein the hybrid network resides on an integrated circuit die.

12. (ORIGINAL) The apparatus of claim 11 wherein the hybrid network is a complementary metal oxide semiconductor integrated circuit.

13. (ORIGINAL) The apparatus of claim 6 wherein the upstream and downstream data signals are multitone modulated data signals.